NEW MEXICO
ENVIRONMENT DEPARTMENT

Resource Protection Division

Harold Runnels Building
1190 Saint Francis Drive (87505)
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SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

THOMAS SKIBITSKI
Acting Division Director

Certified Mail – Return Receipt Requested

June 10, 2013

Ms. Barbara Gastian, Environmental Compliance Manager
Albuquerque Bernalillo County Water Utility Authority (ABCWUA)
4201 2nd Street, SW
Albuquerque, NM 87105

RE: Major Municipal, SIC 4952, NPDES Compliance Evaluation Inspection, Albuquerque Bernalillo County Water Utility Authority (ABCWUA) Wastewater Treatment Plant, NM0022250, May 30, 2013

Dear Ms. Gastian:

Enclosed please find a copy of the report for the referenced inspection that the New Mexico Environment Department (NMED) Surface Water Quality Bureau (SWQB) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Problems noted during this inspection are discussed in the further explanations section of the inspection report. You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and modify your operational and/or administrative procedures, as appropriate. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Diana McDonald
US Environmental Protection Agency
Allied Bank Tower
Region VI Enforcement Branch (6EN-WM)
1445 Ross Avenue
Dallas, Texas 75202-2733

Bruce Yurdin, Program Manager
New Mexico Environment Department
Surface Water Quality Bureau
Point Source Regulation Section
P.O. Box 5469
Santa Fe, New Mexico 87502

I wish to thank your staff for their cooperation during this inspection. If you have any questions concerning this inspection report, please feel free to contact me at the above address or by telephone (505) 827-1041.

Sincerely,

Sandra Gabaldón
Surface Water Quality Bureau

Cc: Rashida Bowlin, 6EN-WC, via email
Darlene Whitten-Hill, 6EN-WC, via email
Carol Peters-Wagnon, 6EN-WM, via email
Jan Walker, 6EN-WC, via e-mail
Brent Larsen, 6WQ-PP, via e-mail
Larry Giglio, 6WQ-PP, via e-mail
Diana McDonald, 6EN-WM, via email
District I, Robert Italiano, via e-mail

EPA

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

NPDES Compliance Inspection Report

Section A: National Data System Coding

1	Transaction Code	3	NPDES	11	yr/mo/day	17	Inspec. Type	19	Inspector	20	Fac Type
	N	5	NM0022225	12	130530	18	C		S		1

Remarks: MAJOR WWTP

67	Inspection Work Days	69	70	Facility Evaluation Rating	71	BI	72	QA	73	74	75	Reserved	80
				3		N		N					

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number)*
Albuquerque Bernalillo County Water Utility Authority (ABCWUA)
4201 2nd Street, SW
Albuquerque, NM 87103

Entry Time /Date
0830 Hours / 05-30-2013

Permit Effective Date
October 1, 2012

Exit Time/Date
1540 Hours / 05-30-2013

Permit Expiration Date
September 30, 2017

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)
Barbara Gastian, Manager / Environmental Compliance
Charles Leder, P.E., Manager / 505-873-7072 / 505-873-7087

Other Facility Data

SIC 4952

35°01'03.08" N
-106°40'14.84" W

Name, Address of Responsible Official/Title/Phone and Fax Number
Barbara Gastian, Manager / Environmental Compliance
Charles Leder, P.E. / Manager / Plant Operations Division / (505) 873-7072 / 505-873-7087
4201 2nd Street SW
Albuquerque, NM 887105

Contacted
Yes [ ] No [*]

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	S	Flow Measurement	S	Operations & Maintenance	N	CSO/SSO
M	Records/Reports	S	Self-Monitoring Program	N	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	S	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	S	Laboratory	N	Storm Water	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Sandra Gabaldon	NMED/SWQB/(505) 827-1041/(505) 827-0160	June 10, 2013
Signature of Management QA Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**
Bruce Yurdin, Program Manager	NMED/SWQB / 505-827-2795 / 505-827-0160	June 10, 2013

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) WASTEWATER TREATMENT PLANT	PERMIT NO: NM0022250

SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS X S ¨ M ¨ U ¨ NA (*FURTHER EXPLANATION ATTACHED NO)*

DETAILS:

1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	X Y ¨ N ¨ NA
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES	O Y ¨ N X NA
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	X Y ¨ N ¨ NA
4. ALL DISCHARGES ARE PERMITTED	X Y ¨ N ¨ NA

SECTION B - RECORDKEEPING AND REPORTING EVALUATION

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. O S X M ¨ U ¨ NA (*FURTHER EXPLANATION ATTACHED YES)*

DETAILS:

1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.	X Y ¨ N ¨ NA
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.	O S X M ¨ U ¨ NA
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	O Y X N ¨ NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	O Y X N ¨ NA
c) ANALYTICAL METHODS AND TECHNIQUES.	O Y X N ¨ NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	X Y ¨ N ¨ NA
e) DATES AND TIMES OF ANALYSES.	X Y ¨ N ¨ NA
f) NAME OF PERSON(S) PERFORMING ANALYSES.	X Y ¨ N ¨ NA
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.	X S ¨ M ¨ U ¨ NA
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.	X S ¨ M ¨ U ¨ NA
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.	X Y ¨ N ¨ NA

SECTION C - OPERATIONS AND MAINTENANCE

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. X S ¨ M ¨ U ¨ NA *(FURTHER EXPLANATION ATTACHED NO)*

DETAILS:

1. TREATMENT UNITS PROPERLY OPERATED.	X S ¨ M O U ¨ NA
2. TREATMENT UNITS PROPERLY MAINTAINED.	X S ¨ M OU ¨ NA
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED . Co-Generation	X S ¨ M O U ¨ NA
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	X S ¨ M O U ¨ NA
5. ALL NEEDED TREATMENT UNITS IN SERVICE	X S ¨ M O U ¨ NA
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.	X S ¨ M OU ¨ NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	X S ¨ M ¨ U ¨ NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.	X Y ¨ N ¨ NA
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.	X Y O N ¨ NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	X Y ¨ N ¨ NA

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) WASTEWATER TREATMENT PLANT	PERMIT NO. NM0022250

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?	X Y O N ¨ NA
IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED?	X Y ¨ N O NA
HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	X Y O N ¨ NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT?	¨ Y X N ¨ NA
IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	¨ Y ¨ N X NA

SECTION D - SELF-MONITORING

PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. X S ¨ M ¨ U ¨ NA *(FURTHER EXPLANATION ATTACHED NO).*
DETAILS:

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	X Y ¨ N ¨ NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	X Y ¨ N ¨ NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	X Y ¨ N ¨ NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	X Y ¨ N ¨ NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	X Y ¨ N ¨ NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	X Y ¨ N ¨ NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	X Y ¨ N ¨ NA
b) PROPER PRESERVATION TECHNIQUES USED.	X Y ¨ N ¨ NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	X Y ¨ N ¨ NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	X Y ¨ N ¨ NA

SECTION E - FLOW MEASUREMENT

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. X S ¨ M ¨ U ¨ NA *(FURTHER EXPLANATION ATTACHED NO)*
DETAILS:

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE	X Y ¨ N ¨ NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	X Y ¨ N ¨ NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	X Y ¨ N ¨ NA
4. CALIBRATION FREQUENCY ADEQUATE.	X Y ¨ N ¨ NA
RECORDS MAINTAINED OF CALIBRATION PROCEDURES.	X Y ¨ N ¨ NA
CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	X Y ¨ N ¨ NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	X Y ¨ N ¨ NA
6. HEAD MEASURED AT PROPER LOCATION.	X Y ¨ N ¨ NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	X Y ¨ N ¨ NA

SECTION F – LABORATORY

PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. X S ¨ M ¨ U ¨ NA *(FURTHER EXPLANATION ATTACHED NO)*
DETAILS:

1. EPA APPROVED ANALYTICAL PROCEDURES USED *(40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)*	X Y ¨ N ¨ NA

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) WASTEWATER TREATMENT PLANT	PERMIT NO. NM0022250

SECTION F - LABORATORY (CONT'D)

2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED ¨ Y ¨ N X NA

3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. X S O M ¨ U ¨ NA

4. QUALITY CONTROL PROCEDURES ADEQUATE. X S ¨ M ¨ U ¨ NA

5. DUPLICATE SAMPLES ARE ANALYZED. 100 % OF THE TIME. X Y ¨ N ¨ NA

6. SPIKED SAMPLES ARE ANALYZED. 100 % OF THE TIME. X Y ¨ N O NA

7. COMMERCIAL LABORATORY USED. X Y ¨ N ¨ NA

LAB NAME Huther & associates, Inc Hall Environmental Analysis Laboratory, Inc

LAB ADDRESS 1156 Nrth Bonnie Brae; Denton, TX 76201 4901 Hawjubsm NE; Albuquerque, NM 87109

PARAMETERS PERFORMED Chronic Biomonitoring PCB's

SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. O S ¨ M O U ¨ NA *(FURTHER EXPLANATION ATTACHED).*

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	None	None	None	Slight	None	Clear	

RECEIVING WATER OBSERVATIONS The slight foaming appeared to be caused from turbulence of the flow entering the Rio Grande.

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. ¨ S ¨ M ¨ U X NA *(FURTHER EXPLANATION ATTACHED N).*
DETAILS:

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. ¨ S ¨ M ¨ U X NA

2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. ¨ S ¨ M ¨ U X NA

3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: Rangeland (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

SECTION I - SAMPLING INSPECTION PROCEDURES *(FURTHER EXPLANATION ATTACHED).*

1. SAMPLES OBTAINED THIS INSPECTION. ¨ Y X N ¨ NA

2. TYPE OF SAMPLE OBTAINED

GRAB _____ COMPOSITE SAMPLE ___ METHOD _____ FREQUENCY

3. SAMPLES PRESERVED. ¨ Y X N ¨ NA

4. FLOW PROPORTIONED SAMPLES OBTAINED. ¨ Y X N ¨ NA

5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. ¨ Y X N ¨ NA

6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE. ¨ Y X N ¨ NA

7. SAMPLE SPLIT WITH PERMITTEE. ¨ Y X N ¨ NA

8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED. ¨ Y X N ¨ NA

9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT. ¨ Y X N ¨ NA

Albuquerque Bernalillo County Water Utility Authority (ABCWUA)
Wastewater Treatment Plant
NPDES Permit No. NM0022250
Compliance Evaluation Inspection
May 30, 2013

Introduction:

On May 30, 2013, Sandra Gabaldón, Sarah Holcomb, and Bruce Yurdin of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) along with Megan Bell, New Mexico Environment Department (NMED), Monitoring and Assessment, conducted a compliance evaluation inspection (CEI) at the Albuquerque Bernalillo County Water Utility Authority (ABCWUA) Wastewater Treatment Plant (WWTP). ABCWUA WWTP has a design flow capacity of 76 million gallons per day (MGD) and is classified as a major discharger under the federal Clean Water Act, Section 402, of the National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned NPDES permit number NM0022250. This permit regulates the WWTP discharge to the Rio Grande in Segment 20.6.4.105 *State of New Mexico Standards for Interstate and Intrastate Surface Waters, 20.6.4 New Mexico Administrative Code (NMAC).* This segment includes the designated uses of irrigation, marginal warmwater aquatic life, livestock watering, public water supply, wildlife habitat and primary contact.

The NMED performs a certain number of CEIs for the U.S. Environmental Protection Agency (USEPA), Region VI, under the NPDES permit program, in accordance with the federal Clean Water Act. USEPA uses these inspections to determine compliance with the NPDES permit program. This inspection report is based on information provided by the permittee's representative, observations made by NMED staff, and records and reports kept by the permitee and/or NMED.

The inspector made introductions, stated the purpose of the inspection and presented credentials to Mr. Charles Leder, P.E., Manager, Plant Operations Division; Mr. Jeffrey J. Romanowski, P.E., Chief Engineer; and Mr. Michael J. Cummings, Safety Manager. The inspectors were later joined by Barbara Gastian, Environmental Compliance Manager, Ms. Jane DeRose Bamman, NPDES Manager, Mr. Joey Nogales, Operations Superintendent, and Mr. Ronnie Lovato, Assistant Superintendent of Operations. The group toured the WWTP and reviewed laboratory techniques with the staff.

Preliminary findings were discussed with the Albuquerque Bernalillo County Water Utility Authority at the end of the inspection.

Treatment Scheme:

Wastewater is pumped by 27 lift stations, 10 vacuum stations and fed by gravity to the entrance works. The headworks or preliminary treatment screens raw wastewater with 6 mechanical bar screens. 2 low level bar screens have a capacity of 25 million gallons per day (MGD) per unit and 4 high level bar screens have a capacity of 37.5 MGD per unit. The flow then passes through 3 vortex grit units or 2 aerated grit chambers. Grit and screenings are taken to a sanitary landfill for final disposal.

Following preliminary treatment the flow is directed to primary clarifiers. 4 older clarifiers are circular and conal in design with a diameter of 120 feet and a capacity of 812,133 gallons each. These units are

capable of handling 22 MGD. The other 4 clarifiers are 150 feet in diameter and are also of a circular and conal design. Each of these clarifiers has a capacity of 1.6 million gallons. The design flow for these units is 38 MGD. All 8 primary clarifiers have scum/scraper arms to move sludge to a sludge pit and scum to the scum pit. Each unit is skirted and has teeth weirs to control the floatables from leaving the clarifier units. Sludge is pumped to the sludge mixing unit prior to going to the digesters. The contents of the scum pits are sent to the sludge mixing unit when the pit gets full.

Effluent from the primary clarifiers is pumped to the Nitrogen Removal Facility (NRF), which consists of 14 aeration basins. Each aeration basin has a volume capacity of 2.29 MG. Each basin has 3 anoxic zones followed by 2 swing zones. There are also 3 oxic zones and 1 dissolved oxygen control zone per basin. There is 1 mixer in each of the anoxic zones and 2 mixers in each swing zone. These are vertical shaft units. Each basin also has a recycle pump with a pumping capacity of 7200 gallons per minute. Aeration in the oxic zones is provide by 4 centrifugal blowers with 450 horsepower (hp) motor drives in a north blower building and 8 centrifugal blowers with 500 hp electrical drives in a south blower building. There are 2 chemical feed systems available for the addition of soda ash and acetic acid for supplemental carbon (if necessary). Following the aeration basins, flow enters the 12 final clarifiers. Each of the clarifiers is a circular and conal design with a side wall depth of 13 feet and a diameter of 135 feet. The capacity of each clarifier is 1.5 MG. Each clarifier has a scum/scraper arm to move sludge to a sludge pit and scum to the scum pit. Sludge can be either returned as return activated sludge (RAS) or wasted to the sludge mixing unit as wasted activated sludge (WAS). The contents of the scum pit are also sent to the sludge mixing unit before being sent to the digesters. Each unit has skirting and teeth weirs to prevent floatables from leaving the unit.

Effluent from the final clarifiers then goes through the UV disinfection system which was placed into service in 2010.

SLUDGE HANDLING:

WAS from the final clarifiers is pumped to dissolved air floatation (DAF) units consisting of 7 thickening tanks. Each tank has a capacity of 24,086 gallons and a detention time of 1.33 hours. The hydraulic loading including recycling is rated at 1.8 GPM/SQ-FT. Influent solids concentration is 0.5 to 1.0% and floating solids concentration is 4.0 to 7.0%. Polymer is fed into this unit a rate of 5 pounds per ton of dry sludge.

The sludge-blending unit consists of a blending tank which has a diameter of 40 feet and a volume capacity of 190,000 gallons. There are three blended sludge pumps which are progressive cavity and constant speed. Each pump has capacity of 250 GPM at a sludge concentration 4 to 8%. There are also two sludge grinders, which a flow capacity of 800 GPM.

There are 14 digesters at this facility. Ten of the digesters are primary and the other four are secondary digesters. Six of the primary digesters are 75 feet in diameter. Four of these six are 22.5 feet deep and the other two are 25.5 feet deep. The small digesters have a capacity of 846,640 gallons of liquid sludge

and the other larger digesters have a volume of 945,727 gallons. The remaining four primary digesters are 85 feet in diameter with a depth of 22.5 feet. The volume capacity of liquid sludge in these units is 846,661 gallons. Of the four secondary digesters, two have a diameter of 75 feet and a maximum depth of 22.5 feet and two have a diameter of 85 feet and a maximum depth of 22.5 feet. Mixing in the primary digesters is provided with internal belt driver mixers. The secondary digesters are mixed with gas mixers. Primary digesters are equipped with counter current heat exchangers and recirculation pumps. Dewatering is accomplished by 3 centrifuges. Polymer tanks and feed pumps are available to help thicken the sludge. Thickened sludge is sent to 4 storage bins with a capacity of 3,038 cubic feet per bin.

Thickened sludge is then trucked to a sludge disposal site on the west mesa approximately 10 miles from the WWTP, located near the Double Eagle Airport where it is either surfaced disposed, land applied or composted. Approximately 3800 acres are used for land application on a rangeland project. The sludge is sampled and applied at a rate which is determined based on the agronomic rate. Composted sludge is windrowed in a pole building on site. Composting is accomplished by mixing sludge with bulking agents, yard and barn waste. The finished product is then sold.

The sludge disposal site was not inspected during this compliance evaluation. However, NMED plans to do a sludge inspection in the near future.

COGENERATION:

This facility has 4 cogeneration units, which can burn either methane gas or natural gas. The interconnect agreement with the electric utility allow for sale of excess generation. Reject heat is used to heat digesters and for building heating.

Further Explanations

Note: The sections are arranged according to the format of the enclosed EPA Inspection Checklist (Form 3560-3), rather than being ranked in order of importance.

Section A – Permit Verification – Overall Rating of "Satisfactory"

Findings for Permit Verification:

The permit was issued October 1, 2012. Review of the final effluent limits have a carbonaceous Biochemical Oxygen Demand, 5-day, 30 day average loading limit of 709 lbs/day. Their 30-day average is 15 mg/L.

The calculation used for loading is as follows:

Concentration (15 mg/L) * design flow (76 MGD) * 8.34

15 mg/L * 76 MGD * 8.34 = 9507 lbs/d

This error was found during this inspection and therefore review of their DMRs show that the 30-day average loading is above the permit limit of 709 lbs/d. EPA may consider modification of the permit to address this issue.

Section B – Recordkeeping and Reporting Evaluation – Overall Rating of "Marginal"

The permit requires, in part III.C.4, Records Contents:

> *Records of monitoring information shall include:*
> *a. The date, exact place, and time of sampling or measurements;*
> *b. The individual(s) who performed the sampling or measurements;*
> *c. The date(s) and time(s) analyses were performed;*
> *d. The individual(s) who performed the analyses;*
> *e. The analytical techniques or methods used; and*
> *f. The results of such analyses.*

The Albuquerque Bernalillo County Water Utility Authority (ABCWUA) was issued an Administrative Order, Docket Number: CWA-06-2012-1706. It requires completing various tasks in accordance with the schedule of activities to achieve sustained compliance with permit effluent limits. It also requires submittal of bi-annual progress reports to describe in detail the

specific actions taken and the progress on complying with the schedule of activities listed. The progress reports are due January 15th and July 15th of each year. The first report is scheduled for submittal on July 15, 2012.

ABCWUA must also submit a project completion report based on the construction activities at the WWTP, to EPA within 45 days after the completion date for each project activity.

Schedule of activities

Activity:	Due Date:
Complete Southside reuse construction project	***June 30, 2012***
Complete supervisory control and data acquisition system improvements	***December 31, 2012***
Complete aeration basin and piping improvements	September 30, 2013
Complete interim blower capacity improvements	March 31, 2014
Complete dewatering complex construction	May 31, 2015
Complete preliminary treatment facility construction	September 30, 2015
Complete dissolved air floatation thickening improvements	December 31, 2015
Complete existing digester improvements	March 31, 2017
Complete final blower improvements	May 31, 2017
Complete primary clarifier improvements	March 31, 2018
Complete new digesters construction	December 31, 2019

The permit requires in Part I.C. Monitoring and Reporting:

> *Any and all reports, correspondence and material(s), required to be submitted to the EPA, including but not limited to those identified in No's 1 through 7 above of this part, shall also be reported to the NMED and the Pueblo of Isleta at the addresses noted in No. 2 above.*

Findings for Recordkeeping and Reporting Evaluation

The permittee has failed to provide monitoring information on their benchsheets. This includes:

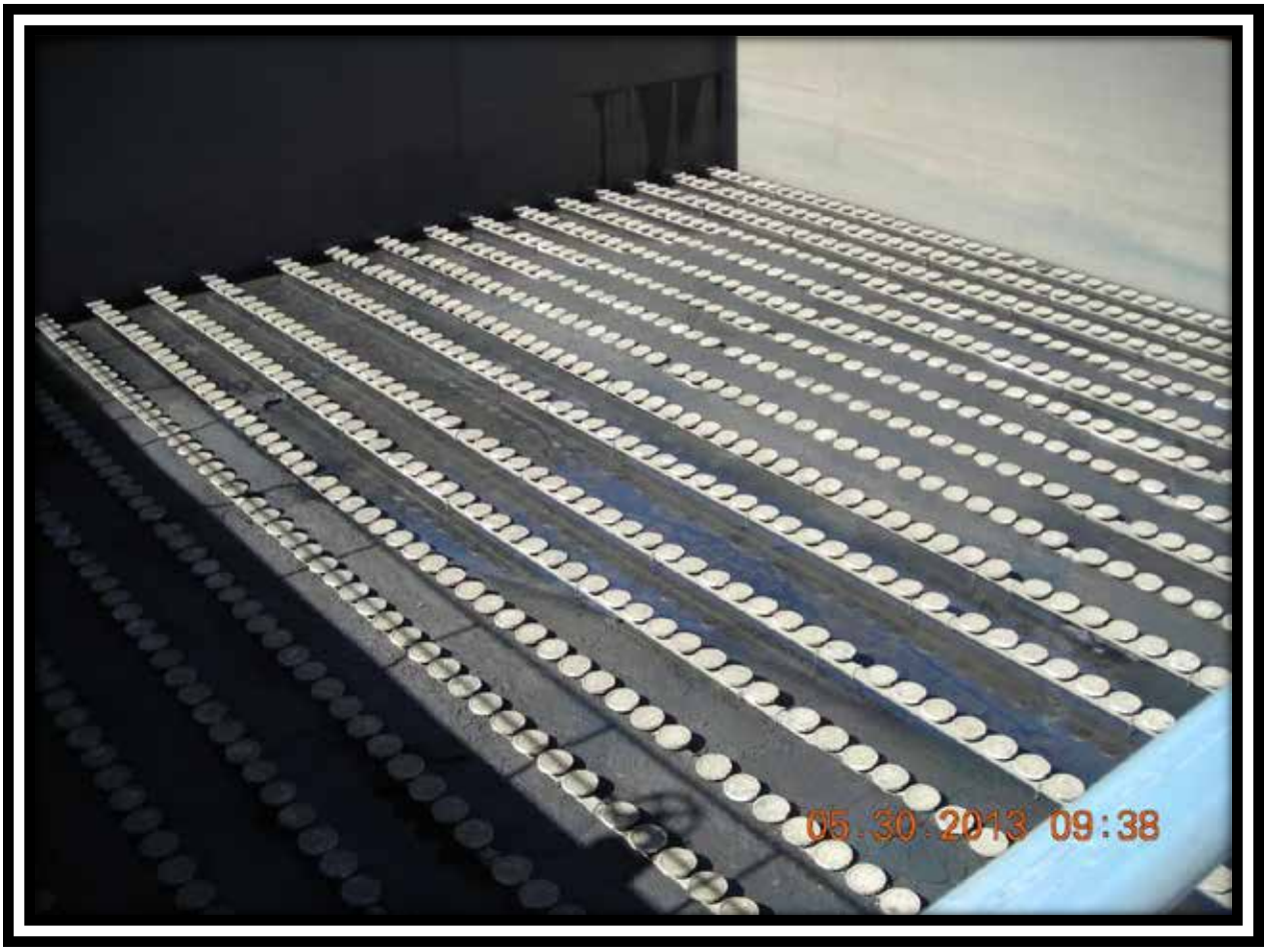
- The exact place sample was taken;
- The time sample was taken;
- Who performed the sampling or measurement; and
- The methodology being performed. This information was provided on the folders, however, this information should be on the benchsheets as well.

There are no bi-annual reports submitted to NMED for the Administrative Order CWA-06-2012-1706 which are required to be submitted on January 15, and July 15. There are no Project Completion Reports found in NMED files. These should have been completed on June 30, 2012 and December 31, 2012 and submitted 45 days after completion.

It appeared that the Southside Reuse Construction Project has been completed. Verification of the Supervisory Control and Data Acquisition System Improvements was not done during this inspection.

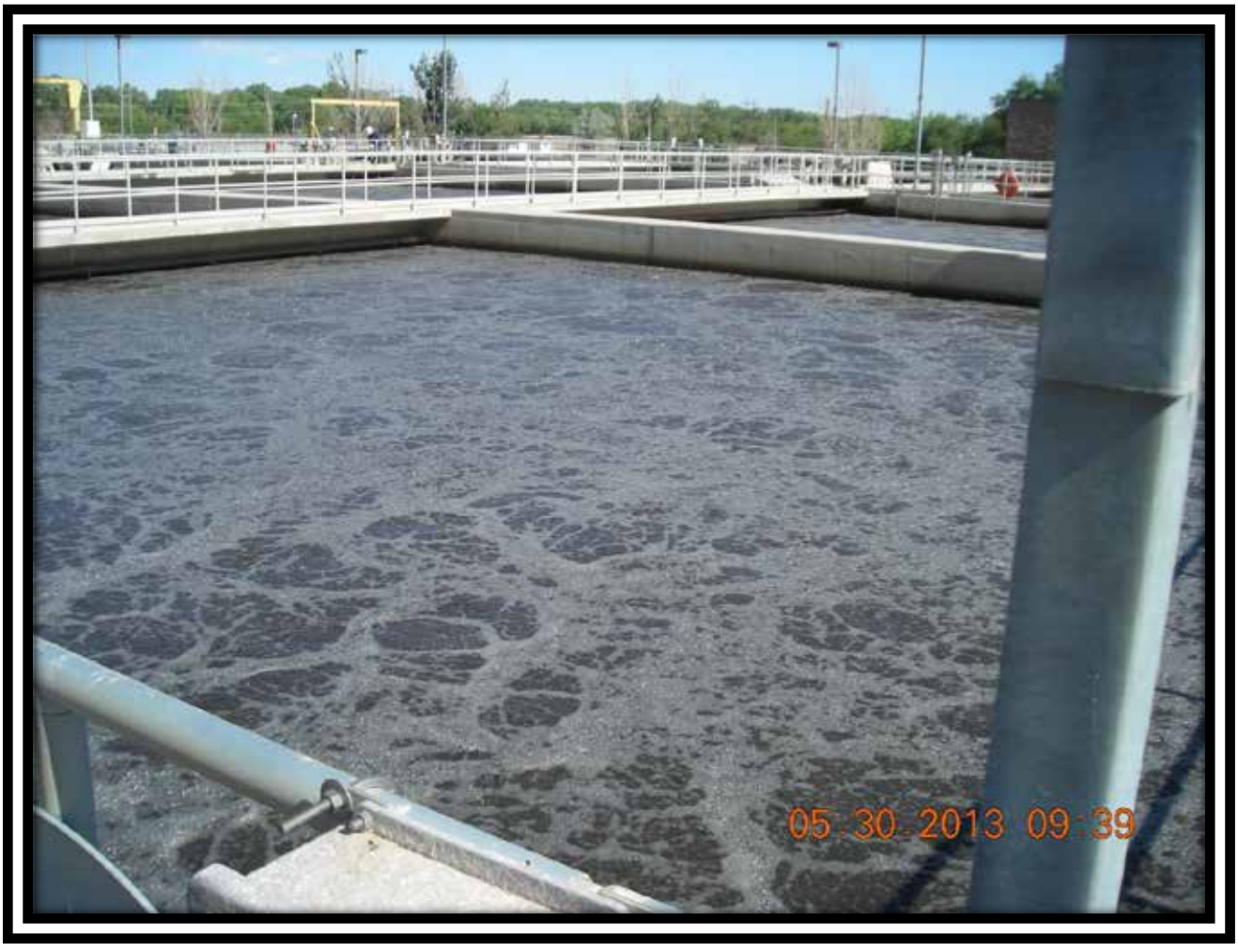
NMED/SWQB
Official Photograph Log
Photo # 1

Photographer: Sarah Holcomb	Date: May 30, 2013	Time: 0938 Hours
City/County: Albuquerque / Sandoval		State: New Mexico
Location: Albuquerque Bernalillo County Water Utility Authority		
Subject: Empty aeration basin. Currently replacing air diffusers and seals		



NMED/SWQB
Official Photograph Log
Photo # 2

Photographer: Sarah Holcomb	Date: May 30, 2013	Time: 0939 Hours
City/County: Albuquerque / Sandoval County		State: New Mexico
Location: Albuquerque Bernalillo County Water Utility Authority		
Subject: Aeration basin. Color was earthy brown with no dead zones noticed.		



NMED/SWQB
Official Photograph Log
Photo # 3

Photographer: Sarah Holcomb	Date: May 30, 2013	Time: 0939 hours
City/County: Albuquerque / Sandoval		State: New Mexico
Location: Albuquerque Bernalillo County Water Utility Authority Wastewater Treatment Plant		
Subject: Nitrification / Denitrification Basin.		

NMED/SWQB
Official Photograph Log
Photo # 4

Photographer: Bruce Yurdin	Date: May 30, 2013	Time: 1051 Hours
City/County: Albuquerque / Sandoval		State: New Mexico
Location: Albuquerque Bernalillo County Water Utility Authority		
Subject: Outfall 001 to Rio Grande